

two friction rollers and consequently effects on orbit lengths of all rows and retention of the engagement.

- to ensure the concentricity the races, they are engaged by two additional bearings.

5 SUMMARY OF THE INVENTION

The present invention provide a new bearing device having free rolling parts, comprised of: an inner race, an outer race, at least two rows of rolling parts wherein each rolling part is in contact with two adjacent rolling parts in the same row and with rolling parts of at least one adjacent row and/or with the surface of one of the races, wherein the bearing structure is designed to create orbital eccentricity
10 between the inner race and the outer race.

BRIEF DESCRIPTION OF THE DRAWINGS

These and further features and advantages of the invention will become more clearly understood in the light of the ensuing description of a preferred embodiment thereof, given by way of example
15 only, with reference to the accompanying drawings, wherein-

Figs. 1A and 1B are illustrations of prior art devices;

^{1D}
Figs. 1C and ~~2C~~_^ are illustrations of the devices in accordance with the first embodiment of the present invention;

Fig. 2a is a perspective view of the devices in accordance with the first embodiment of the
20 present invention;

Figs. 2b and 2c are a cross cut illustration of the devices in accordance with the first embodiment of the present invention;

Fig. 3A is cross cut illustration of the devices in accordance with the second embodiment of the present invention;

25 Fig. 3B is a perspective illustration of the devices in accordance with the second embodiment of the present invention;

amw
3-11-09